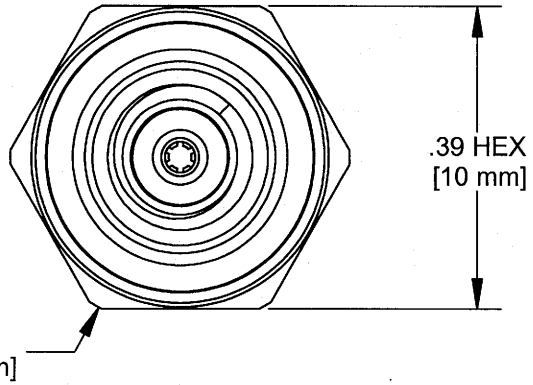

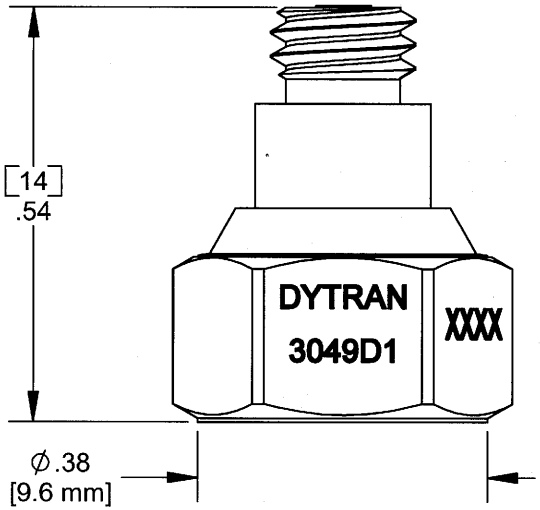

ARROW INDICATES
ACCELERATION DIRECTION
FOR POSITIVE CHARGE OUTPUT

3. WEIGHT: 2.7 GRAMS NOM
2. CAPACITANCE: 650 pF NOM
1. SENSITIVITY: 5.6 pC/g NOM

EXCEPT AS OTHERWISE NOTED

ALL DIMENSIONS IN INCHES
TOLERANCE: XXX = ± .005 .XX = ± .01

SURFACE FINISH 63
EXCEPT AS NOTED

BREAK EDGES TO DEBURR .005 / .015
RADIUS OR CHAMFER

FILLETS: .005 MAX R

DYTRAN
INSTRUMENTS, INC. CHATSWORTH, CA

SCALE	REV	DATE	ECN		
4:1	A	6/8/2006	-		
DATE 12/17/2005	PART NO. MODEL 3049D1				
DRAWN PML / CHECKED	MATERIAL				
APPROVED PML 6.8.06	NEXT ASSEMBLY	USED ON			

TITLE
OUTLINE DRAWING, 3049D1

DWG NO. 127-3049D1

SHEET 1 OF 1

DYTRAN INSTRUMENTS, INC.

SPECIFICATIONS MODEL 3049D, 3049D1

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT, 3049D	3.2	grams
WEIGHT, 3049D1	3.0	grams
SIZE, HEX X HEIGHT	.39 (10mm) X .54	inches
MOUNTING, 3049D	10-32 integral stud	
MOUNTING, 3049D1	adhesive mount	
CONNECTOR, TOP MOUNTED	10-32	coaxial
MATERIAL, HOUSING AND CONNECTOR	Titanium alloy	
PERFORMANCE		
SENSITIVITY, NOM.[1]	5.8	pC/g
FREQUENCY RANGE, ± 5%	to 8k	Hz
RESONANT FREQUENCY, NOM.	40	kHz
LINEARITY [2]	± 1%	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY	.03	g/με @250με
ENVIRONMENTAL		
MAXIMUM VIBRATION/SHOCK	1000/2000	±g pk
TEMPERATURE RANGE	-100 to +350	°F
SEAL, HERMETIC	glass-to-metal and TIG welded	
COEFFICIENT OF THERMAL SENSITIVITY	.06	%/°F
ELECTRICAL		
CAPACITANCE, NOM.	650	pF
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	positive	
CASE GROUNDING	signal ground is isolated from mounting surface	

[1] Measured at 100 Hz, 1 g rms per ISA RP 37.2.
[2] Measured using zero-based best straight-line method, % of F.S. or any lesser range.